U.S. Victory Veteran System Design Services

The U.S. Victory Veteran System engineering team possesses state-of-theart knowledge and is an experienced organization with a successful record of accomplishment in systems development and product realization.
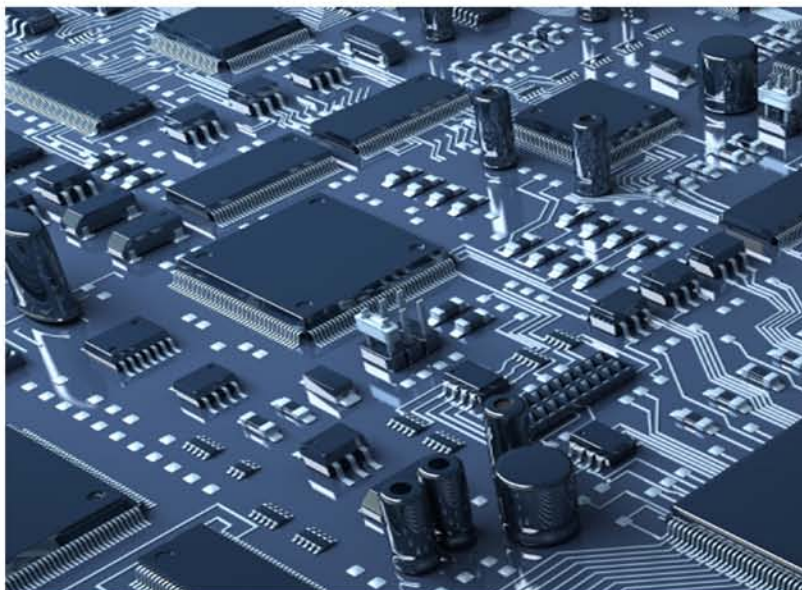
Design Services Overview
- Product Development
- Requirements Review
- Board Design
- FPGA/PLD Design
- Software and Firmware Development
- Physical Design
- Testing
- Regulatory Compliance
- Manufacturing
- Maintenance and Support

CIRCUIT DESIGN

Increasing processor and interface clock speeds, combined with mixed analog and digital requirements, make today's circuit designs more challenging than ever—and this trend is expected to continue. USVVS is experienced in implementing analog and digital circuit designs on printed circuit boards using industry leading tools and applying strong fundamentals in electrical design.

TECHNOLOGY PARTNERS
- Altera
- Xilinx
- Motorola
- Texas Instruments
- Lucent Technologies

FPGA/PLD DESIGN AND VERIFICATION

Achieving aggressive design performances with synthesized Verilog/VHDL in an FPGA is still an "art", requiring knowledge of IC architecture, preferred HDL coding styles, synthesis control parameters/constraints and past experience.

Design Examples
- Pattern Matching Computation Accelerator
- 6 Gbit/S fast Ethernet packet switch
- 20 Gbit/S Crossbar Switch Controller
- 4 Mpacket/S IP Forwarding Table Lookup
- IP Packet Flow Identifier
- CCD Camera Controller
- SAR for Proprietary Cell Format
- PCI Interface to Optical Data Link

Tools Experience	Device Experience
Altera	Altera
MAX+plus II	CYCLONE
Quartus	ACEX
Xilinx	APEX-20K
Lucent	APEX-1K
ORCA Foundry	FLEX-10K
Synopsys	FLEX-6000
Design Compiler	MAX-9000
FPGA Compiler	MAX-7000
FPGA Express	Xilinx
Exemplar	Virtex-II
Leonardo Spectrum	Spartan-II
Cadence	XC9500
Verilog XL	Lattice
Mentor Graphics	ORCA Series 2
ModelSim	M4